

none more than the commands she occupies in alfaifa growing.

none more than the commanding position

velopment in this industry is one of the mar-vels, of her prolific agriculture, and with al-failt as with winter wheat, no other state ap-

proaches her in its acreage and production. Those who have known it longest and best

are the ones who esteem it most highly—in fact, very few who have once raised or used it as a feed are satisfied to be without it; and

as a rule they contemplate an enlarged acreage and its increased use. The marvelous

fact connected with this plant so old in agri-culture is that it comes, as it does, to so

many at the beginning of the twentieth cen-

The credulity of those who are strange to

wonderful plant. Even the facts cut in two leave him in a perturbed state of mind as to the veracity or the sanity of the narrator, but the experiences of those who are actually its

several cuttings of hay, unsurpassed in ton-nage and quality, it is indeed esteemed as a benefaction and doubly appreciated where it

Another feature, too, that the wide-awake

farmer does not overlook or minimize is the improving effects of its roots, restoring and enriching rather than depleting the fertility

of his land, to the great benefit of other suc-

As is well known, alfalfa is one of the old-

est forage plants, yet to the husbandry of the American farmer it is of but recent ac-

quirement. Kansans were among the fore-

mest to correctly estimate its worth, and its

widespread introduction into the Sunflower state has been one of the most important

factors in increasing bank deposits and the per capita wealth. It is noteworthy and

significant that our unprecedented prosperity dates from the time alfalfa was first shown

proper appreciation by our farmers. All who know alfalfa best esteem it as one of the

richest acquisitions to American agriculture, and in Kansas conditions seem naturally adapted to its most abundant and economical

In Kansas alfalfa growing was a prelude

to prosperity, and is the steadfast promoter

hay plants and has already resulted in quadrupling the state's output of tame hay. In 1890 the value of the tame hay crop was \$2,000,000, while that of 1909 was considerably

over \$14,000,000. The annual value of prod-ucts of live stock in that time has been doubled and alfalfa has made of Kansas, if

not first, one of the foremost states in dairy-ing, a most desirable branch of husbandry that intelligently and generally followed well-

that intelligently and generally followed well-nigh insures continued and enlarged prosper-ity. Alfalfa, it seems, supplies the one re-quisite Providence failed to provide in estab-lishing the otherwise ready-made conditions

for dairying in Kansas, and the attention being given this branch of intensive farming

in nearly every locality is having its benefi-cial influence commercially and socially. The widespread introduction of alfalfa in the Sun-

flower state has been one of the most impor-tant factors in the increase of bank deposits

and the added wealth they represent. It has increased the state's manufactures through

grinding the hay into meal and the prepara-

grinding the hay into meast and the property of the foods, which add an important industry promising large development. The increase in its acreage

production.

flourishes and other clovers do not.

tury as an agricultural revelation.

# The Science of Farming



### Answers by the Veterinarian

Wiscensin College of Agriculture

#### Contagious Ophthalmia - Thin Horse

HAVE a flock of 100 ewes that have had sore eyes and one or two went blind; nave lost fifty lambs that seemed too weak to live; have eighty live ones left and some of them are stiff with sore eyes. What is it and what can be done?

Haves 4-year-old horse that won't get fat; nips his sides, but looks fall right otherwise. Any information will be appreciated. Thanking you in advance.—Carl Whitesell, Arrowsmith, Ill.

Reply-1. This disease is contagious and remains in an affected place for some time. Ewes and lambs should be moved onto fresh ground away from the infected area. Treat by washing affected eyes twice daily with a saturated selution of boric acid and two or three times a week puffing between eyelids with a little of a mixture of equal parts of finely powdered calemel and boric acid. Sponge falfalfa, however fair minded, is invariably taxed by a recitation of the truth about this eyes of lambs at birth with a 10 per cent so-lution of boric acid or drop in two drops of a 1 per cent solution of nitrate of silver, to be kept in a blue-colored bottle. 2. Have the horse clipped and his teeth attended to by a veteringry densist. Feed him one quart of ensist. Feed him one quart of growers are convincing. An alfalfa field is a perennial and abiding blessing to those who are water and stirred up with the so fortunate as to have it, yielding annually, whether the season be wet or dry, its with whole eats at noon and black steap molasses mixed with three quarts of warm water and stirred up with cut hay, buan and cornmeal. Give this night and morning with whole oats at noon and leng hay at night.

#### Leaking Teats

now can we prevent the teats from streaming milk before milking time? . The cow is near calving now and the teats are large and she is a very easy milker and healthy. She gives a big mess of milk when fresh.-G. H., Missouri.

Reply-The old-fashioned plan is to make the ends of the teats sore; but this is a poor practice as it may lead to dangerous infection of die udder. We know of no permanent cure. Heavy one has one would be very glad to hear from him. Mechanical measures con-sist in tying wide tapes around the ends of the tests or painting the ends after milking with coat upon coat of flexible collodion. which hardens and prevents escape of milk. Sometimes milking three times a day helps

#### Enlarged Stifle Joints

A 4-month-old colt has two big stifle veterinary says they come from leak of joint water. This is the second colt we have had. The other one is a year old and both its of her progress. From obscurity it has steadily risen to the foremost rank among stifles are large and growing bigger and the muscles below and above are wasted away Does this trouble breed? We did not work the mare that was the mouther of the 4-month-old celt, and neighbors say she should have been worked and that would have prevented the stifle swellings. Any advice you can give me about this trouble will be welcome -G. H. T. Minnesota

Reply-Not working the mare was not the cause of this stifle disease; nor is it hereditary. The cause is infection of the navel at birth, a subject that has been spoken of here several times of late. It will be found fully discussed in circular of information No. 13 of the agricultural experiment station of Wiscensin. This circular is entitled "Care New-Been Foals" and may be had on application to Dean H. L. Russell, college of agriculture, Madison, Wis. The disease is easily-prevented by having the mare foal in clean place and by applying a strong solution of corresive sublimate to the navel at birth and then twice a day until the part is perfectly healed. Cases such as you describe rarely respond satisfactorily to treatment. affected colf-usually remains a cripple for life. On dissection of effected joints we have ound an uncerated condition of the cartilage covering the ends of the bones forming the joint. Rub the enlargement with ing the joint. Rub the enlar jodine ointment each other day.

## Alfalfa-Growing In Kansas

By F. D. Coburn



Finished Steers Ready for Market

Alfalfa is pronouncedly superior to prairie hay for beef production, and the more rapid the etxension of the area of land devoted to the production of alfalfa, supplanting the less valuable and lower yielding native hay, the more rapid will be the production of wealth from our soil.

time the enumerators of the board of agriculture returned the area for the state as 34,334 acres. Now the alfalfa field of our state aptivated crops exceed it in annual area-namely, wheat, corn and oats. In combina-tion with these alfalfa furnishes Kansans in abundance with perhaps the best and cheap-est rations anywhere available for the maintenance of their live stock, for the excellence of which they are famed.

ner who seeks light as to alfalfa is more than liable to find himself befogged by the vast amount of twaddle in catalogues, bulleting and the press, pretending to describe the su-perior qualities and peculiarities of the alged numerous different varieties, and the importance of securing this one for a cold climate, that one for a dry climate and the others for certain latitudes and altitudes at prices that are preposterous. Generally speaking, most of these so-called varieties are not in the market and many of them never existed. The dealer may advertise and profess (possibly in good faith) to supply them, but the chances are that if their hist tory was traced it would reveal that at the farther end of the line they all came from the

The fact that a man in any given locality acres. At that time Jewell, now the leader of has tried alfalfa once or twice without suc- all, with her 11,602 acres, had but 296 acres, cess signifies very little as to its adaptability. One of the striking and interesting fearequirements he may have done scarcely any: the shifting of the locality of increase. In of the simple things needful to its prosperity. 1891 the west was in the lead and for the This, too, while thinking he was right and following seven years Finney county was taking no little pains. His ignorance may in foremest. In 1898 Eutler, a southern county, a single turn have been the cause of failure, or he may have gone wrong at every turn. In when Jewell, an extreme northern county, or he may have gone wrong at every turn. In when Jewell, an extreme northern county.

Such failure should only serve to make the experimenter more determined, and no housekeeps a horse, a cow, a pig or poultry should be satisfied without having a part of his realty in this greatest of all forage plants. Failure may come from various causes, and undance with perhaps the best and cheapt rations anywhere available for the mainmance of their live stock, for the excellence
which they are famed.

The new convert and the would-be begint additerated or otherwise impure; seed that
who seeks light as to alfalfa is more than
that the deliberation of the live stock is not alfalfa. The new convert and the would-be begint additerated or otherwise impure; seed that
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> By the first enumeration of the alfalfa acreage of Kansas, in 1891, Finney county was found far in the lead by more than two one, with 5,717 acres. Her closest competitor was Kearny, the county next west, with 2,188

Being unfamiliar with its habits or tures of alfalfa history in our state has been development. The increase in its acreage here affords some, although no adequate idea of the growing appreciation in which the plant is held. It is just twenty years since the crop was first thought of enough importance to chronicle its statistics, and at that

six southern counties, may be used. These, with their averages in 1891 and 1909 com-pared, afford striking examples. The showpared, afford striking examples. ing for the six northern counties is as fol-

	Acres-	
	1891	1909.
Jewell	296	61,602
Smith	53	44,335
Phillips	111	31,779
Republic	496	31,776
Mitchell	620	26,047
Washington	206	21,459

Totals .................2,042 216,398 An increase in these six counties of 10,527 per cent, the stating of which sounds like ro-

s the sh	owing is thus	S:	
		Acres	
		1891.	1909.
Sedgwi	ck	1,023	29,528
Butler		503	38,390
Sumne	r	382	22,384
Cowley		416	22,016
Harper		160	12,641
Barber	The state of the state of	694	12,560
			-
Totals		3,179	137.519

The increase in these six southern counties of 4,226 per cent was not so large as in the six northern counties, but strikingly im-

These twelve counties combined had in 1891 5,221 acres; in 1909 they had 354,517 acres, or an increase of 6,690 per cent. They had, too, in 1969, 36 per cent of the entire al falfa acreage of the state. Kansas had in 1909 alfalfa to the extent of 993,539 acres, or an increase of 13 per cent over 1908 and 211.3 per cent over 1901, and a gain of 2,789.6 per cent over the area of 1891. Alfalfa can be grown in every county in the state, and each county has a greater or less area of it. Sev-enty-seven counties showed increases in 1909 aggregating 119,661 acres, and the net gain for the year was 115,256 acres. While Jewell county has most alfalfa, Smith, its neighbor on the west, ranks second, with 44,335 acres and Butier, to the south and further east, comes third, with 38,399 acres. Other countles having over 20,000 acres were Phillips Republic, Sedgwick, Mitchell, Dickinson, Cloud, Sumner, Cowley, Osborne, Marion and McPherson, ranking in the order named.

The largest gains in the year were report ed by Phillips and Cowley of 5,370 and 5,36 acres, respectively, followed by Sumner with an increase of 4,791 acres, Smith 4,545 acres Finney 4,543 acres, Mitchell 4,489 acres, Harper 4,437 acres and Barber 4,314 acres.
Alfalfa is a wonderful plant, yielding un

der widely varying conditions well-nigh in-credible growths of incomparable forage, ye some brains are a requisite of success grow alfalfa" is quite misleading, but with fair treatment under fairly favorable conditions it is bringing good fortune to thou-sands of those growers who know it best and use a decent intelligence in their dealings

Alfalfa since its advent has sold mor-Kansas land and at higher prices than any other one growth, commodity or influence Lands with no sale and considered a burden at a \$3 valuation have been quick sales at \$40 to \$75 per acre when seeded to this won-derful forage, while others, although not by any means the best, have paid their owners 10 and 12 per cent on valuations of \$200 or more per acre. The cultivation and feeding of alfalfa mark the highest development of modern agriculture. Alfalfa is one of nature's precious gifts; it is the preserver and the conserver of the homestead. It does not fail from old age. It loves the sunshine, converting the sunbeams into coin in the pockets dition of the skin of the udder rub it twice of the thrifty husbandman. It is the greatest daily with best castor oil. This should soon mortgage lifter yet discovered and Kansas is remove the warts. Fresh goose grease also

#### Answers by the Veterinarian

Cr. A. S. Alexander V. scensin College of Agricultur:

#### Moon Blindness

WOULD like to find out what to do for I a horse I have. It has been having sore eyes, matter forming inside and will keep running for a while, then stop and kind of clear up, then start to run again. I have had one go blind. Now, if it is pink eye I would like to know what to do, and if there is any cure for it .- P. A. S., Iowa.

Reply-The disease is not "pink eye." That term is applied to that form of assuenza (epizootic) which localizes in the memorales of the eyes when the horse is attached by the characteristic fever and lassitude. The discase you refer to is periodic ophithemia (moon blindness) and it is incurable and will result in blindness after successive at-tacks. By some it is considered contagious. There seems to be a hereditary tendency to the disease, so that affected mares and stullions should not be used for breeding. Find-ness may be relarded by giving a dram of ledide of potash in drinking water night and morning at time of attack and continuing for a few days after the eyes clear up. A such times also keep the eyes covered with a soft cloth to be kept wet with a solution of half a dram each of sulphate of zine and fluid extract of belladonna leaves in a quart of cold

#### Fistulous W. thers

What is good to burn the pipes out of a thistilo? I once saw a horse doctor pack long strips of cheese cloth into the discharging pipes on a horse's neck. He scaked the cloth strips in some strong medicine be-fore using and said it would burn out the fore using and said it would burn of the lining of the pipes and then they would heal. The horse had an awful sore neck, but after a time the matter stopped running and the place healed up. I have a case to treat, and wonder if you can tell what to use on the strips of cheese cloth, or what will do to burn the parts.—M. K., Kansas.

Reply—The veterinarian probably soaked the strips in terchloride of antimony (butter of antimony), as that is a favorite remedy for use in such cases. Or he may have used strong solution of corrosive sublimate, for-saldchyde or acid. In such cases the first necessary step is to open up the abscess every pipe and pocket. A caustic may then be used to swab the lining membrane of the cavities exposed. It is not good practice to pack caustics into an undrained abscess cavty. Such treatment sometimes may result n a cure. More often it induces spreading of the sinuses (pipes) and burrowing of pus, which may result in an incurable condition. In cases of fistula of the withers or of the poll (poll cvil) it is best to have a qualified veterinarian do the necessary cutting and then follow his instructions carefully until the case no longer requires treatment. Healing by use of caustics often proves temporary and the swelling comes up again, and when pus breaks out the condition may be found worse than before.

#### Warts

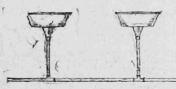
There are some big, rough growths on our heifer's back and neck, and some of them seem to be almost loose. Can they be eafely cut off? A cow has a lot of hard, rough places on her udder. They do not seem like warts, but like warty skin. Can anything be done to help make the skin smooth again?-M. K., Missouri.

Reply-Twist the warts off with the firgers, or, if the fingers are not strong enough for the work, use pinchers. Touch the bleeding places with a red-hot iron, or apply Monsell's solution or powder. If the warts begin to grow again wet them with nitric acid or does fairly well in place of the castor oil.

### SHORT TALKS ON HELPFUL SUBJECTS

#### Water Troughs For Dairy Cows

THE metal troughs in the picture can be made for \$1.50 each. The basins at the top of the pipe are fastened at the side of the stall and have covers that the cow lifts with her nose when drinking. They are always



kept full but do not leak, as the water runs out through an overflow pipe. Experiments in New York showed that the milk production fell off eleven gallons in one day from twenty cows when they were watered in the ordinary way after having used the auto-

#### Strain, Not Breed, Counts

HAVE bred poultry ever since I was Is years old and have learned many things in the bitter school of experience, which, though it is a pretty expensive school, certainly gives one knowledge that no col-lege can give," says Donald Boyce. "I have learned that it is not the breed that counts, but the strain. Here is where so many fail. They select a breed they like and the birds not lay well; they discard it and select another, Some strains of Plymouth Rocks are bred for layers, some are not. So it is with every breed. After learning this I went to work and picked the best layers, until how I can take any breed and in a few years build up a laying strain."

### Functions of Carrohydrates

THE carbohydrates of the food are chiefly starch, sugars and celluloses, and form the largest part of vegetable foods. The latter substances form the stiff framework of the stems of plants and the hulls of seeds, and are only partially digested. These carbohydrate bodies are not permanently stored in the arimal body, but serve, when burnt in the system, for the production of heat and mechanical work. They are also capable, when consumed in excess of immediate requirements, of conversion into fat.

The only way to get all the happiness in

life is to give for the happiness of all

#### Timely Action Best

W E ARE hearing considerable complaint VV about damage by rabbits in orchards during the last winter. The heavy covering of snow in many sections made such more common than usual. Some are inquiring what is best to do now that their trees are girdled. The use of the bridge graft is perhaps the best and most efficient treatment for serious injuries of this kind. The same is described in detail elsewhere. It will probably help to save some of the girdled trees. But this is the wrong time of the year to make the best showing against the work of rabbits in orchards. It is very much like locking the barn after the horse is stolen. It is far better to so pretect you trees that girdling treatment will not be needed. This can be done effectively and at small cost in the fall by the use of wire or some other kind of tree protection. There is then no danger of winter loss from rab-The insurance so afforded is well worth the cost. Timely action invariably pays the best.

#### TUBERCULOSIS EXPENSIVE

the United States millions of dollars yearly not through the actual death of tubercular animals, but by the tubercular animals infecting the healthy ones, thereby reducing

If all of the tubercular cattle in the United States were slaughtered at once, the balance of the cattle would be worth more than the

tubercular and healthy animals together. It is every man's duty, in justice to himself, to determine positively that his herd is free from tuberculosis. Wiping tuberculosis out of the cattle of this country is too large a problem for a handful of people to undertake, and for this reason we will never wipe tuberculosis out of the cattle of our country until the live stock owners are given the proper information both concerning the nature of bovine tuberculosis and the tubercul-

BOVINE tuberculosis, insists Dr. David live stock owner he will be more anxious to Roberts of Waukesha, Wis., is costing remove tuberculosis from his herd than any United States millions of dollars yearly, one else, owing to the fact that he is finan-

> Supposing those who do not believe that there is such a thing as bovine tuberculosis or a reliable tuberculin test apply this simple harmless test to their herd, and if they find that there are animals in their herd that

have reacted to the test have such animals placed in one stable and those that passed the test, indicating that they are free from fuberculosis, placed in another stable, keeping for their own use the product of the one products of those that have according to this test passed and been found free from tuber-

Live stock breeders, think this over carelin test. When this information reaches the fully and be fair with yourself.

#### Give the Farm a Name

S ENTIMENT plays an important role in the activities of man and usualy is connected with a desire for betterment. Naming farm is purely sentiment, but the effect may cially interested, and he and his family first | be far reaching and may even go so far as of all are consumers of the products of his | to enter the field of commercialism. A farm without a name has nothing to distinguish it from its hundreds of neighbors. But give it a name, like "Woodland Place," if it contains a clump of trees, or "Meadow Brook," If by chance the place is favored with a stream of running water, and the farm essumes dig-nity at once. One inventive gentleman calls his property "Willida Farm," a combination of "Will," his name, and "Ida," his wife's. Many such names can be constructed and applied, many times with financial profit, that have reacted and are pronounced tu-bercular, and put upon the market the den vegetables are sold in packages on which is placed the name as a guaranty of high quality. The calling of the former needs something to give it dignity. No other occu-pation is more worthy of respect. Naming the farm is a good start. Try it.

Cement Manure Pit

THIS pit is constructed just outside the

barn, where manure can be thrown into it

rom the windows. By this method all of the

liquid manure is saved and can be absorbed/

by any coarse material before hauling to the of the manure for a winter season.

#### Get More Corn

S HALLOW and frequent cultivation, with a liberal application of manure, together with continued selection of early maturing ears of corn for seed, has enabled farmers in northern Minnesota to produce from twenty-five to thirty bushels of Minnesqta No. 2 corn per acre. This variety is known as White Cap Yellow Dent and originated at the state experiment station. To educate farmers in originating, developing and se-lecting their own seed grains will be the object of the good seed institutes next winter to be held in various parts of the state.

#### Nation of Dairymen

In HOLLAND the land is worth from \$500 to \$1,000 an acre, and in many cases naturally no better than much of our Illinois land. Yet these people pay their rents or interest on the investment by producing butter and cheese which they place on the European markets in successful competition with that produced in America on land of less than one-fifth the value. They land of less than one-fifth the value. They do this in spite of the fact that they can-not produce the amount of digestible nutriper acre that we can with either corn

When labor and thought are linked together in every phase of industrial life we shall have less grit in the machine and more gold in its product .- Hon. H. C. Adams.

### QUESTIONS OF THE FEED LOT By Professor Herbert W. Mumford

I the construction of horse barns and the securing of a suitable man to manage a horse farm. How many mares ought a stallion to serve in a season? Professor R. C. Obrecht submits the fol-

lowing suggestions: We have not published any matter rela-

tive to the construction of horse barns. The principal considerations are durability and economy of material used, light, ventilation, sanitary and convenience of arrangements. Doors and windows should be so arranged as

likely to break their feet from fighting flies | be provided with a sewer trap and drain to a if allowed to stand directly upon the concrete and when wet it is very slippery if troweled | As a floor for a foaling stall I think there down smooth. The former objection may be met by keeping bedding under the horse, which will also aid the horse from slipping. In putting in the concrete I think it advisable brick or rough concrete is satisfactory. Where bricks are used they may be laid in the regulation.

sanitary and convenience of arrangements.

Doors and windows should be so arranged as to admit sunlight, which is destructive to germ life. Ventilators should be provided to carry off foul air at such times as when the barn is closed and full of stock. The King system is as good as any. In order to prevent overheating 1000 to 1200 cubic feet of air should be allowed per horse. If the air is not changed frequently more space is needed.

In order to construct a sanitary barn good Grainage should be provided and impervious floors. Considering durability and economy of construction I think concrete is about the source of think it advisable bricks are used they may be laid in the regular manner and dry sand and cement (equal parts) brushed into the cracks. When thorocersary in the base and I prefer to use oughly alled dampen and the cracks. When thorocersary in the base and I prefer to use oughly alled dampen and the cracks. When thorocersary in the base and I prefer to use oughly alled dampen and the cracks. When thorocers with floors constructed in this manner has been that they are satisfactory. Where bricks are used they may be laid in the regular manner and dry sand and cement (equal parts) brushed into the cracks. When thorocers with floors constructed in this manner has been that they are satisfactory.

The concrete is sutsfactory. Where bricks are used they may be laid in the regular manner and dry sand and cement (equal parts) brushed into the cracks. When thorocers oughly alled dampen and the cracks of the cracks. When there we have they may be laid in the regular manner and dry sand and cement (equal parts) brushed into the cracks. When there were the made of a richer mixture of cement than is necessary in the base and I prefer to use there will be read to call the parts) brushed into the cracks. When there were the made of a richer mixture of cement than is necessary in the base and I prefer to use there will be read to call the parts) brushed into the cracks. When there were used they are used there was bricks are used they may be laid in the regu-

of your equipment and local conditions that I am unable to give you anything like a definite reply. I think it a good plan in your case to make such an arrangement that your foreman will feel a responsible in-terest in affairs and not become negligent of duty. If he is financially interested it will likely stimulate him to hustle and carefulness in details. You should decide in your mind what you are willing under favorable conditions that your foreman should make in addltion to what you are paying him in wages.
As an average of favorable conditions under careful management I think you can figure on raising 60 per cent colts of the number of mares bred, though some years you may not be able to raise this many. The question then arises how many of your mares will likely produce colts that are worth more than \$100 when 1 year old? The locality and the way in which the stallions are handled are fac-tors that determine what the commission from service fees from outside mares will be. and is more experienced and is stated and the state and th